

16 January 1959

## MEMORANDUM FOR THE RECORD

SUBJECT: Conference at NRL re Project Checker

1. On 12 January and 14 January 1959 I visited [ ] 25X1  
NRL, with regards to problems encountered with the [ ] for 25X1  
use in project Checker. Also present was [ ] 25X1  
and present part time was [ ] 25X1

2. Stability of the [ ] has been a problem. This 25X1  
vehicle in its present form has a natural frequency which develops  
under wind loads, as well as other conditions, and this vibration in  
the area of 5 to 7 cycles per second interferes with the sensitive  
response of the sensing head. Preliminary tests indicate that efforts  
should be made toward stiffening of the [ ] in an attempt to 25X1  
increase the natural frequency and to lower the amplitude to the point  
where this interference is not critical.

3. It is not known whether or not this can be done, but certainly  
modification to the present unit will reduce interference. [ ] 25X1  
[ ] suggested, and I concurred, that he attempt to make the legs of 25X1  
the [ ] more rigid and stiffen up other components as he could. 25X1  
He will then take the unit to E. G. & G. where they will install the  
sensing head and conduct field tests to determine the degree of inter-  
ference remaining. He expects to deliver the unit to E. G. & G. by  
the end of the month.

4. With the concurrence of [ ] I told both [ ] and 25X1  
[ ] that the maximum angle of operation from vertical could be reduced 25X1  
from  $45^{\circ}$  to  $35^{\circ}$ . This will eliminate additional development by E. G. & G.  
towards improving the operation of the directional compass in the sensing  
head.

5. [ ] seemed anxious to arrange a meeting with [ ] 25X1  
to iron out problems concerning the electronic components. I suggested  
he contact [ ] direct on this matter. 25X1

cc: [ ] 25X1

DD/P/TSS/ED [ ] :mt 25X1

25X1